

SLICE BASED ARCHITECTURE FOR A MULTIFUNCTION RADIO

ABSTRACT OF THE DISCLOSURE

An electronic radio system multifunction slice (100) for
5 a electronic radio system (400). The slice (100) includes an
antenna interface (102), several multi-band transceivers
(106-112), a processor (104), and an avionics interface
(114). The antenna interface (102) couples to the antenna
preconditioners of the aircraft. The processor (104) is
10 coupled to the multi-band transceivers (106-112) and antenna
interface (102), and controls the transceivers (106-112) and
antenna interface (102) to provide signal and data processing
for at least two independent radio function threads. The
processor (104) is also coupled to the avionics interface
15 (114), which connects to the avionics network of the
aircraft. Each multifunction slice 100 provides a
programmable multifunction radio.